iiyama
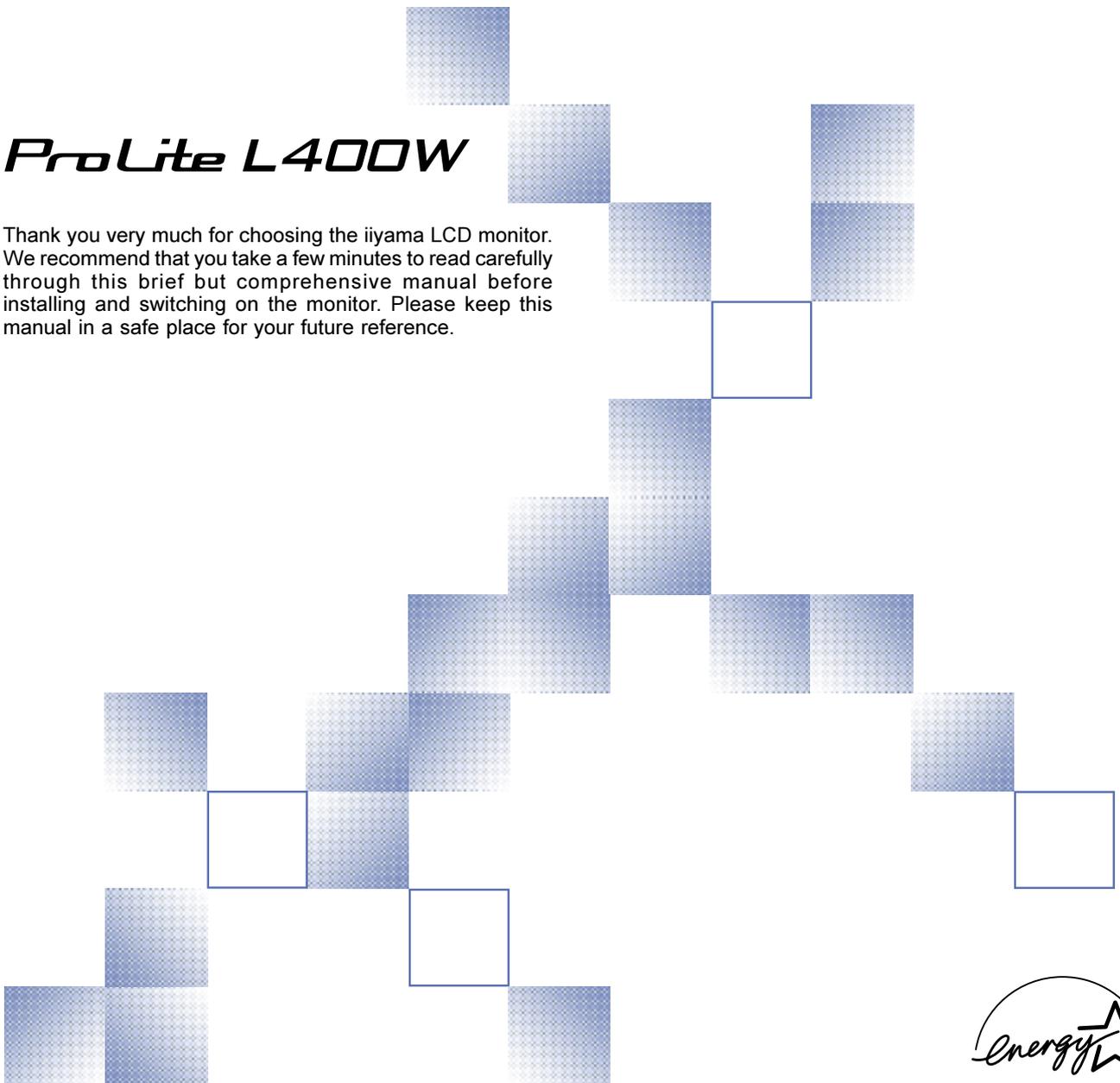
USER MANUAL

ProLite

LCD Monitor

ProLite L400W

Thank you very much for choosing the iiyama LCD monitor. We recommend that you take a few minutes to read carefully through this brief but comprehensive manual before installing and switching on the monitor. Please keep this manual in a safe place for your future reference.

energy

FCC DECLARATION OF CONFORMITY

Model Number: PLL400W
Trade Name: iiyama
Responsible party: IIYAMA North America, Inc.
Address: 65 West Street Road, Suite 101B, Warminster, PA18974 U.S.A.
Telephone number: 215-682-9050

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This device has been tested and found to comply with the limits for Class B Personal Computers and peripherals, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the device is operated in a residential environment. This device generates, uses and can radiate radio frequency energy, and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If you determine the device does cause harmful interference to radio or television reception (this may be determined by monitoring the interference while turning the device off and on), you are encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the device and receiver.
- Connect the device into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio or TV technician for help.

To meet the FCC requirements, you should use a signal cable with ferrite core at both ends.

CAUTION   Changes or modifications not expressly approved by iiyama could void the users authority to operate the device under FCC compliance regulations.

CANADIAN DEPARTMENT OF COMMUNICATIONS COMPLIANCE STATEMENT

This digital apparatus does not exceed the Class B limits for radio noise emissions from digital apparatus as set out in the radio interference regulation of the Canadian department of communications.

CE MARKING DECLARATION OF CONFORMITY

This LCD monitor complies with the requirements of the EC Directive 89/336/EEC "EMC Directive" and 73/23/EEC "Low Voltage Directive" as amended by Directive 93/68/EEC.
The electro-magnetic susceptibility has been chosen at a level that gives correct operation in residential areas, business and light industrial premises and small-scale enterprises, inside as well as outside of the buildings. All places of operation are characterised by their connection to the public low voltage power supply system.

TABLE OF CONTENTS

- We reserve the right to change specifications without notice.
- All trademarks used in this user manual are the property of their respective owners.
- As an ENERGY STAR® Partner, iiyama has determined that this product meets the ENERGY STAR® guidelines for energy efficiency.

FOR YOUR SAFETY

SAFETY PRECAUTIONS

WARNING

STOP OPERATING THE MONITOR WHEN YOU SENSE TROUBLE
If you notice any abnormal phenomena such as smoke, strange sounds or fumes, unplug the monitor and contact your dealer or iiyama service center immediately. Further use may be dangerous and can cause fire or electric shock.

NEVER REMOVE THE CABINET
High voltage circuits are inside the monitor. Removing the cabinet may expose you to the danger of fire or electric shock.

DO NOT PUT ANY OBJECT INTO THE MONITOR
Do not put any solid objects or liquids such as water into the monitor. In case of an accident, unplug your monitor immediately and contact your dealer or iiyama service center. Using the monitor with any object inside may cause fire, electric shock or damage.

INSTALL THE MONITOR ON A FLAT, STABLE SURFACE
The monitor may cause an injury if it falls or is dropped.

DO NOT USE THE MONITOR NEAR WATER
Do not use where water may be splashed or spilt onto the monitor as it may cause fire or electric shock.

OPERATE UNDER THE SPECIFIED POWER SUPPLY
Be sure to operate the monitor only with the specified power supply. Use of an incorrect voltage will cause malfunction and may cause fire or electric shock.

PROTECT THE CABLES
Do not pull or bend the power cable and signal cable. Do not place the monitor or any other heavy objects on the cables. If damaged, the cables may cause fire or electric shock.

ADVERSE WEATHER CONDITIONS
It is advisable not to operate the monitor during a heavy thunder storm as the continual breaks in power may cause malfunction. It is also advised not to touch the plug in these circumstances as it may cause electric shock.

CAUTION

INSTALLATION LOCATION
Do not install the monitor where sudden temperature changes may occur, or in humid, dusty or smoky areas as it may cause fire, electric shock or damage. You should also avoid areas where the sun shines directly on the monitor.

DO NOT PLACE THE MONITOR IN A HAZARDOUS POSITION
The monitor may topple and cause injury if not suitably located. Please also ensure that you do not place any heavy objects on the monitor, and that all cables are routed such that children may not pull the cables and possibly cause injury.

MAINTAIN GOOD VENTILATION
Ventilation slots are provided to keep the monitor from overheating. Covering the slots may cause fire. To allow adequate air circulation, place the monitor at least 10 cm (or 4 inches) from any walls.
Ventilation slots on the back of the cabinet will be blocked and the monitor may overheat if the stand is removed. This may cause fire or damage. Operating the monitor on its back, side, upside down or on a carpet or any other soft material may also cause damage.

DISCONNECT THE CABLES WHEN YOU MOVE THE MONITOR
When you move the monitor, turn off the power switch, unplug the monitor and be sure the signal cable is disconnected. If you do not disconnect them, it may cause fire or electric shock. It is recommended that two people are used when moving the monitor.

UNPLUG THE MONITOR
If the monitor is not in use for a long period of time it is recommended that it is left unplugged to avoid accidents.

HOLD THE PLUG WHEN DISCONNECTING
To disconnect the power cable or signal cable, always pull it by the plug. Never pull on the cable itself as this may cause fire or electric shock.

DO NOT TOUCH THE PLUG WITH WET HANDS
Pulling or inserting the plug with wet hands may cause electric shock.

OTHERS

ERGONOMIC RECOMMENDATIONS
To eliminate eye fatigue, do not operate the monitor against a bright background or in a dark room. When using the monitor over a prolonged time, a ten minute break every hour is recommended as looking at the screen continuously can cause eye strain.

SPECIAL NOTES ON LCD MONITORS

The following symptoms are normal with LCD monitors and do not indicate a problem.

NOTE
- When you first turn on the LCD monitor, the picture may not fit in the display area because of the type of computer that is used. In this case, adjust the picture position to its correct position.
- Due to the nature of the backlight, the screen may flicker during initial use. Turn off the Power Switch and then turn it on again to make sure the flicker disappears.
- You may find slightly uneven brightness on the screen depending on the desktop pattern you use.
- Due to the nature of the LCD screen, an afterimage of the previous screen may remain after switching the image, when the same image is displayed for hours. In this case, the screen is recovered slowly by changing the image or turning off the Power Switch for hours.
- Contact your dealer or iiyama service center for the backlight replacement when the screen is dark, flickering or not lighting up.

NOTE
- The fluorescent light used in the LCD monitor may have to be periodically replaced. For the warranty coverage on this component, please check with local iiyama service center.
- If you have to return your unit for service and the original packaging has been discarded, please contact your dealer or iiyama service center for advice or replacement packaging.

WARNING
If you drop any materials or liquids such as water into t warrlnas talma blnthen ang,n ta blnuLugo talntthe wpkower wimmediwatlyp adr onntlgsblnact tswpknyourtswpkndealertswpkoertswpkniiyama tawpknservice tawpkncentersg,bpn.t[ZTr*h,8!8!Tallopskallospk8!×Tm8!TrnFt!J7!Tmbmdp8mblpk8mblxhh8lspbdhsTkkblogk8
-

-
-
-

BEFORE YOU OPERATE THE MONITOR

FEATURES

◆ **40" Wide TFT Color LCD Monitor**
◆ **Supports Resolutions up to 1280 × 1024 (down scale)**
◆ **Super Wide Viewing Angle and High Contrast**
◆ **Digital Character Smoothing**
◆ **Automatic Set-up**
◆ **Plug & Play VESA DDC2B Compliant, Windows® 95/98/2000/Me/XP Compliant**
◆ **Power Management (ENERGY STAR® and VESA DPMS Compliant)**
◆ **Digital Input for Clear Display**

CHECKING THE CONTENTS OF THE PACKAGE

The following accessories are included in your package. Check to see if they are enclosed with the monitor. If anything is missing or damaged, please contact your local iiyama dealer or regional iiyama office.

- Power Cable*
- D-SUB Signal Cable MB37
- DVI-D Signal Cable DV66
- RS-232C Cable SR51
- S-Video Cable AV10
- Stand × 2
- Screw for Stand × 4
- Remote Control
- AA Dry Battery × 2
- User Manual

CAUTION * The rating of the Power Cable enclosed in 120V area is 10A/125V. If you are using a power supply higher than this rating, then a power cable with a rating of 10A/250V must be used.
However, All guarantees and warranties are void for any problems or damage caused by a power cable not supplied by iiyama.

OPTIONAL PARTS

Optional parts as below are available for your LCD monitor. Please contact your local iiyama dealer or regional iiyama office for them. The Video Adapter enables you to connect the video equipment to the monitor.

- Video Adapter   OVA1-2

INSTALLATION OF STAND

CAUTION ■ The monitor is heavy. Two person handling is recommended.
   ■ Install the stand on a stable surface. The monitor may cause injury or damage if it falls or is dropped.
   ■ Do not give a strong impact to the monitor. It may cause damage.
   ■ Unplug the monitor before installation to avoid electric shock or damage.

Install the Stand as shown in the illustration.
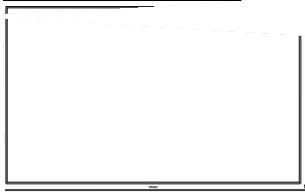Tighten the Screw to fasten the Stand.

STAND

SCREW × 4
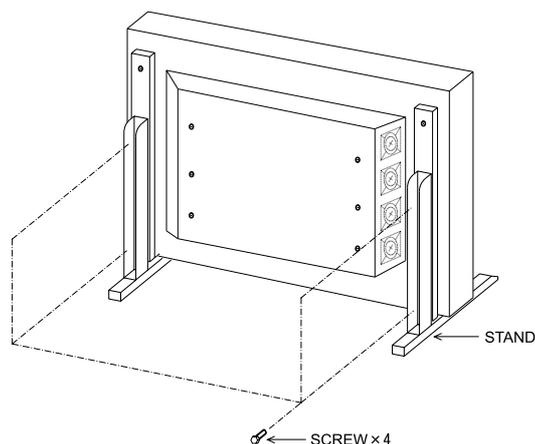
① Power Switch (POWER)

② Auto Button (AUTO)

Adjusts Clock, Phase, H-Position and V-Position automatically.

NOTE

■ For best results, use the Auto C...

(Se...

①

<Back>

④ + / Brightness Button (+ / —)

⑤ Menu Button (MENU)

⑥ Input Button (INPUT)

⑦ Remote Sensor

⑧ Power Indicator

NOTE

Blue: Normal operation

Orange: Power Management

The monitor enters into power management mode which reduces the power consumption to less than 5W when receiving no horizontal and/or vertical sync signal.

⑨ Optional Video Adapter Slot

⑩ DVI-D 24pin Connector (DVI)

⑪ D-SUB mini 15pin Connector (D-SUB)

⑫ RS-232C Connector (RS-232C)

⑬ AC Connector (AC IN)

⑭ Main Power Switch (POWER)

<Remote Control>
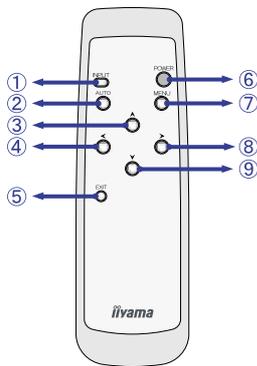
① Input Button (INPUT)

② Auto Button (AUTO)

Adjusts Clock, Phase, H-Position and V-Position automatically.

NOTE

■For best results, use the Auto Set-up in conjunction with the test pattern Test.bmp.
(See page 12 for SCREEN ADJUSTMENTS.)

■The screen becomes dark for approximately five seconds during the adjustment.

③ Zoom + Button (∧)

④ – Button / Contrast Button (＜)

⑤ Exit Button (EXIT)

⑥ Power Switch (POWER)

⑦ Menu Button (MENU)

⑧ + Button / Brightness Button (＞)

⑨ Zoom – Button (∨)

PREPARING THE REMOTE CONTROL

To use the remote control, insert the two dry batteries.

CAUTION ■ Do not use any other batteries other than those specified in this manual for the Remote Control. Do not insert old and new batteries together in the Remote Control. Make sure that the terminals match the "+" and "–" indications in the battery compartment. Burst batteries or the electrolyte from these batteries may cause stains, fire or injury.

① Slide open the battery case lid on the reverse of the remote control as shown in the illustration.

② Take care not to mix up the "+" and "–" terminals.

③ Slide closed the battery case lid.
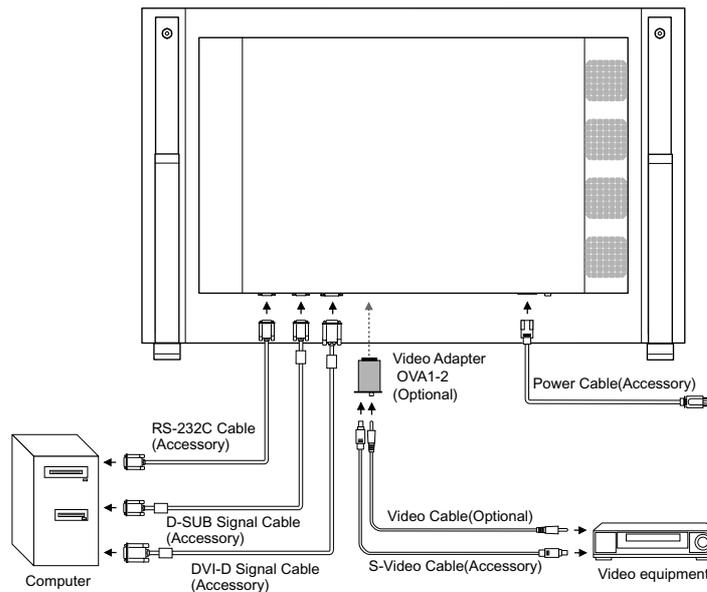
Push here to slide the battery case lid.
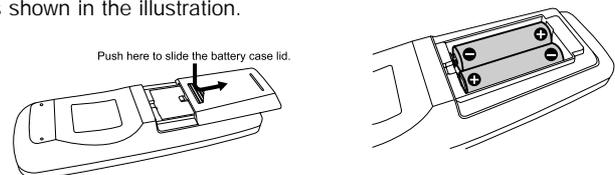
NOTE ■ Replace with new batteries when the Remote Control does not work close to the monitor. Use AA dry batteries.

■ Operate the Remote Control by pointing it toward the Remote Sensor on the monitor.

■ Other manufacturers remote control will not work with this monitor. Use the provided Remote Control ONLY.

CONNECTING YOUR MONITOR

① Ensure that both the computer and the monitor are switched off.

② Connect the computer to the monitor with the signal cable. (See page 16 for CONNECTOR PIN ASSIGNMENT.)

③ Connect the RS-232C cable to the computer while using the RS-232C control feature. (See page 16 for CONNECTOR PIN ASSIGNMENT.)

④ Connect the Power Cable to the monitor first and then to the power supply.

NOTE ■ The signal cables used for connecting the computer and monitor may vary with the type of computer used. An incorrect connection may cause serious damage to both the monitor and the computer.

■ For connection to Macintosh computers, contact your local iiyama dealer or regional iiyama office for a suitable adaptor.

■ Make sure you tighten the finger screws at each end of the signal cable.

[Example of Connection]

Video Adapter
OVA1-2
(Optional)

Power Cable(Accessory)

RS-232C Cable
(Accessory)

D-SUB Signal Cable
(Accessory)

Video Cable(Optional)

DVI-D Signal Cable
(Accessory)

S-Video Cable(Accessory)

Computer

Video equipment

COMPUTER SETTING

■ Signal Timing

Change to the desired signal timings listed on page 16 in COMPLIANT TIMING, after you confirm that the picture appears normally.

■ Windows 95/98/2000/Me/XP Plug & Play

The iiyama LCD monitor complies with DDC2B of VESA standard. The Plug & Play function runs on Windows 95/98/2000/Me/XP by connecting the monitor to DDC2B compliant computer with the Signal Cable supplied. Windows 95/98/2000/Me/XP Monitor Information File for iiyama monitors may be necessary for your computer and obtained via the Internet, using the address:

http://www.iiyama.com (U.S.A.)
http://www.iiyama.co.uk (U.K.)

NOTE ■ For additional information on how to download the driver for your monitor, please access one of the internet sites noted above.

■ Monitor Drivers are not required in most cases for Macintosh or Unix operating systems. For further information, please contact your computer dealer first for advice.
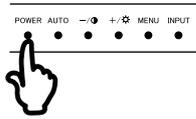
BASIC OPERATION

■ Turn on the monitor

Press the Main Power Switch on the monitor. The monitor is turned ON when you press the Power Switch on the monitor or the Remote Control. Press again to turn OFF the monitor.

[Monitor]
Press the Power Switch.
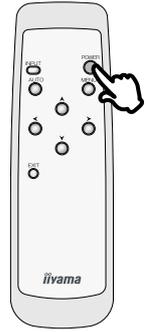
[Remote Control **]**
Press the Power Switch.

| NOTE | Even when using the power management mode, the monitor consumes electricity. Turn off the Power Switch whenever the monitor is not in use, during the night and weekends, to avoid unnecessary power consumption.
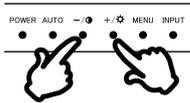
■ Move the cursor horizontally

Select menu or setting, or perform the adjustment by pressing the + / – on the monitor or the ◀ / ▶ Button on the Remote Control when the menu page is displayed on the screen.
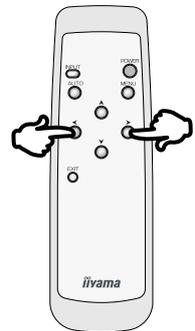
[Monitor **]**
Press the + / – Button.

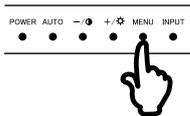**[** Remote Control **]**
Press the ◀ / ▶ Button.

■ Display the adjustment menu page

The menu page appears on the screen when you press the Menu Button on the monitor or the Remote Control.
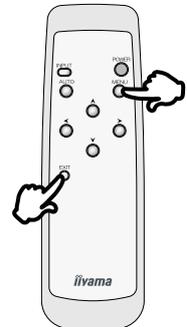The menu page disappears when you press the Exit Button on the Remote Control.

[Monitor **]**
Press the Menu Button.

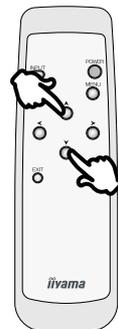**[** Remote Control **]**
Press the Menu Button.

■ Display the adjustment Zoom

The Zoom item appears on the screen when you press the Zoom ∧ / ∨ Button on the Remote Control.

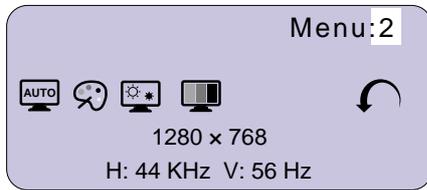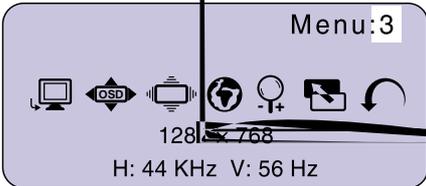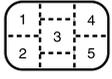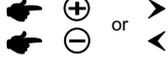**[** Remote Control **]**
Press the Zoom ∧ / ∨ Button.

V-Position

+ 50

Menu : 2 (Analog)	Menu:2 AUTO 🎨 ☼ ▥ ↻ 1280 × 768 H: 44 KHz V: 56 Hz		
Adjustment Item	**Problem / Option**		**Button to Press**
AUTO Auto Set-up*² **Direct**	NO	Return to Menu.	
	YES	Adjust Clock, Phase, H-Position and V-Position automatically.	
🎨 Color Temp.	Color1	Approx. 9300K	
	Color2	Approx. 7500K	
	User	Red	
☼ Sharpness	1 2 3 4 5 ↰ ▬ Adjust the picture quality at resolutions of less than 1280 × 768 when selecting "1" or "2" at "Full Screen" on Menu:3. You can change the picture quality from 1 to 5 (sharp to soft). Press the + Button on the monitor or the ❯ Button on the Remote Control to change the picture quality in numerical order. Press the − Button on the monitor or the ❮ Button on the Remote Control to change the picture quality in reverse numerical order.		
▥ Gamma	Mode1	Normal	
	Mode2	High contrast	
	Mode3	Dark	
↻ Return To Menu	Highlight "Menu : 2" again.		

Menu : 3
(Analog)

Menu:3

1280 x 768
H: 44 KHz V: 56 Hz

Adjustment Item	Problem / Option		Button to Press
Signal Select **Direct**	Input 1	Select the INPUT 1.	
	Input 2	Select the INPUT 2.	
	Video 1*¹	Select the VIDEO input.	
	Video 2*¹	Select the S VIDEO input.	
OSD Position	1 2 3 4 5	You can move the OSD display area to any one of the following 5 positions within the overall display: Press the + Button on the monitor or the ➤ Button on the Remote Control to move the OSD in numerical order. Press the – Button on the monitor or the ➤ Button on the Remote Control to move the OSD in reverse numerical order.	➕ or ➤ ➖ ➤
Full Screen	OFF	The picture is displayed at the optimum resolution.	
	Mode1	Stretch the picture and keep the screen size ratio.	
	Mode2	Stretch the picture to fit the full screen.	

NOTE Adjust the screen size at resolutions of less than 1280 × 768. When selecting "1" or "2" displayed text or lines may be blurred, or brightness may not be uniform when inputting stripe pattern signal or the like.

Adjustment Item	Problem / Option		Button to Press
Language	English	English	
	Deutsch	German	
	Français	French	
	Nederlands	Dutch	
	Svenska	Swedish	
	Italiano	Italian	
	Español	Spanish	
	Русский	Russian	
	日本語	Japanese	
Zoom **Direct** Only the Remote Control has direct adjustment.	Zoom in Zoom out		➕ or ⋀ ➖ ⋁
		MENU	
	To move the zoom point to the right. To move the zoom point to the left.		➕ or ➤ ➖ ➤
		MENU	
	To move the zoom point upward. To move the zoom point downward.		➕ or ⋀ ➖ ⋁
Reset	NO	Return to Menu.	
	YES	Factory-preset data is restored.	
Return To Menu	Highlight "Menu : 3" again.		

*¹ Optional input only, see APPENDIX B.

Direct

You can skip the Menu pages and display an adjustment scale directly by using the following button operations.

● Signal Select
Press the Input Button on the monitor or the Remote Control when the menu is not displayed.

● Zoom
Press the Zoom Button on the Remote Control when the menu is not displayed.

Digital Input

Menu : 1 (Digital)	Menu:1 ☼ ◐ 🎨 🖥 🖳 ↩ 1280 × 768 H: 44 KHz V: 56 Hz

Adjustment Item	Problem / Option			Button to Press
☼ Brightness *¹ **Direct**	Too dark			⬅ ⊕ or ❯
	Too bright			⬅ ⊖ or ❮
◐ Contrast **Direct**	Too dull			⬅ ⊕ or ❯
	Too intense			⬅ ⊖ or ❮
🎨 Color Temp.	Color1	Approx. 9300K		
	Color2	Approx. 7500K		
	User	Red	Too dull	⬅ ⊕ or ❯
		Green	Too intense	⬅ ⊖ or ❮
		Blue		
🖥 Sharpness	1 2 3 4 5 ⬅ ⊕ or ❯ / ⬅ ⊖ or ❮ Adjust the picture quality at resolutions of less than 1280 × 768 when selecting "1" or "2 at "Full Screen" on Menu:2. You can change the picture quality from 1 to 5 (sharp to soft). Press the + Button on the monitor or the ❯ Button on the Remote Control to change the picture quality in numerical order. Press the – Button on the monitor or the ❮ Button on the Remote Control to change the picture quality in reverse numerical order.			
🖳 Gamma	Mode1	Normal		
	Mode2	High contrast		
	Mode3	Dark		
↩ Return To Menu	Highlight "Menu : 1" again.			

*¹ Adjust the Brightness when you are using the monitor in a dark room and feel the screen is too bright.
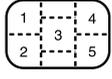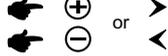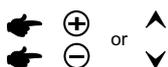
Direct

You can skip the Menu pages and display an adjustment scale directly by using the following button operations.

● Brightness
Press the Brightness Button on the monitor or the Remote Control when the Menu is not displayed.
● Contrast
Press the Contrast Button on the monitor or the Remote Control when the Menu is not displayed.

NOTE

SWITCHING BRIGHTNESS / CONTRAST ADJUSTMENT
To switch between Brightness and Contrast adjustments, press the Menu Button within 10 seconds after pressing the Brightness Button or the Contrast Button during the direct adjustments above.

Menu : 2
(Digital)

Menu:2

🖥️ ⬦ 🖳 🌐 💡 🔲 ↩

1280 × 768

H: 44 KHz V: 56 Hz

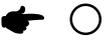| Adjustment Item	Problem / Option		Button to Press
Signal Select **Direct**	Input 1	Select the INPUT 1.	
	Input 2	Select the INPUT 2.	
	Video 1*[1]	Select the VIDEO input.	
	Video 2*[1]	Select the S VIDEO input.	
OSD Position	1 2 3 4 5 [1][4] [3] [2][5]		👈 ⊕ or ❯ 👈 ⊖ or ❮
	You can move the OSD display area to any one of the following 5 positions within the overall display: Press the + Button on the monitor or the ❯ Button on the Remote Control to move the OSD in numerical order. Press the – Button on the monitor or the ❮ Button on the Remote Control to move the OSD in reverse numerical order.		
Full Screen	OFF	The picture is displayed at the optimum resolution.	
	Mode1	Stretch the picture and keep the screen size ratio.	
	Mode2	Stretch the picture to fit the full screen.	
NOTE Adjust the screen size at resolutions of less than 1280 × 768. When selecting "1" or "2" displayed text or lines may be blurred, or brightness may not be uniform when inputting stripe pattern signal or the like.			
Language	English	English	
	Deutsch	German	
	Français	French	
	Nederlands	Dutch	
	Svenska	Swedish	
	Italiano	Italian	
	Español	Spanish	
	Русский	Russian	
	日本語	Japanese	
Zoom **Direct** Only the Remote Control has direct adjustment.	Zoom in Zoom out		👈 ⊕ or ⋀ 👈 ⊖ or ⋁
		MENU 👈 ◯	
	To move the zoom point to the right. To move the zoom point to the left.		👈 ⊕ or ❯ 👈 ⊖ or ❮
		MENU 👈 ◯	
	To move the zoom point upward. To move the zoom point downward.		👈 ⊕ or ⋀ 👈 ⊖ or ⋁
Reset	NO	Return to Menu.	
	YES	Factory-preset data is restored.	
Return To Menu	Highlight "Menu : 2" again.		

*[1] Optional input only, see APPENDIX B.

Direct

You can skip the Menu pages and display an adjustment scale directly by using the following button operations.

● Signal Select
Press the Input Button on the monitor or the Remote Control when the menu is not displayed.

● Zoom
Press the Zoom Button on the Remote Control when the menu is not displayed.

SCREEN ADJUSTMENTS

Adjust the image by following the procedure below to get the desired picture when selecting Analog input.

- The screen adjustments described in this manual are designed to set image position and minimize flicker or blur for the particular computer in use.
- The monitor is designed to provide the best performance at resolution of 1280 × 768, but can not provide the best at resolutions of less than 1280 × 768 because the picture is automatically stretched to fit the full screen. It is recommended to operate at a resolution of 1280 × 768 in normal use.
- Displayed text or lines will be blurred or irregular in thickness when the picture is stretched due to the screen enlargement process.
- It is preferable to adjust the image position and frequency with the monitor controls, rather than with computer software or utilities.
- Perform adjustments after a warm-up period of at least thirty minutes.
- Additional adjustments may be required after the Auto Set-up depending on the resolution or signal timing.
- The Auto Set-up may not work correctly when displaying the picture other than the screen adjustment pattern. In this case, manual adjustments are required.

There are two ways to adjust the screen. One way is automatic adjustment for Clock, Phase and Position. The other way is performing each adjustment manually.

Perform the Auto Set-up first when the monitor is connected to a new computer, or resolution is changed. If the screen has a flicker or blur, or the picture does not fit in the display area after performing the Auto Set-up, manual adjustments are required. Both adjustments should be made by using the screen adjustment pattern (Test.bmp) obtained via the iiyama web site (http://www.iiyama.com or http://www.iiyama.co.uk).

This manual explains adjustment under Windows 95/98/2000/Me/XP.

① **Set the Full Screen feature to Off and display the picture at the optimum resolution.**

② **Enter the Test.bmp (screen adjustment pattern) to wallpaper.**

> NOTE
> - Consult the appropriate documentation for doing this.
> - Test.bmp is made at resolution of 1280 × 1024. Set the display position to center in the wallpaper setting dialogue box. If you use Microsoft® PLUS! 95/98 cancel the setting of "Stretch desktop wallpaper to fit the screen".

[Adjustment pattern]

Color bar

Zebra pattern

Picture frame
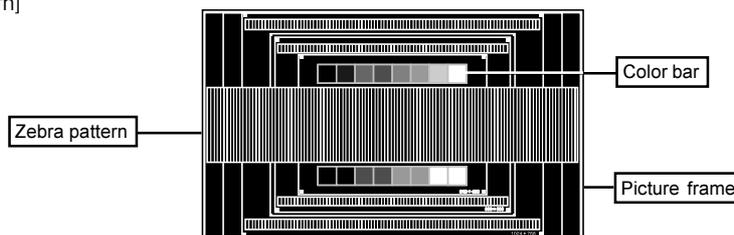
This is the image displayed at 1280 × 768.

③ **Press the Auto Button. (Auto Set-up)**

④ **Adjust the image manually by following procedure below when the screen has a flicker or blur, or the picture does not fit in the display area after performing the Auto Set-up.**

⑤ **Adjust the V-Position so that the top and bottom of the picture frame will fit to the display area.**
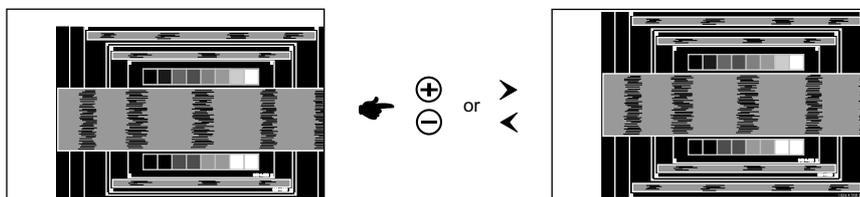
⑥ **1) Adjust the H-Position so that the left side of the picture frame will move to the left edge of the display area.**
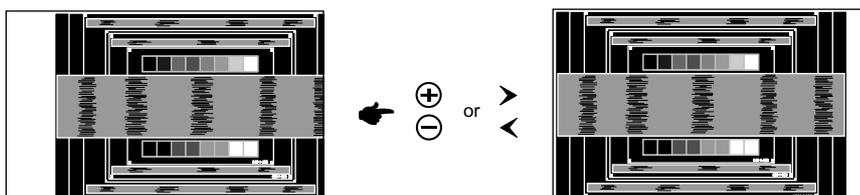
2) Stretch the right side of the picture frame to the right edge of the display area by adjusting the Clock.
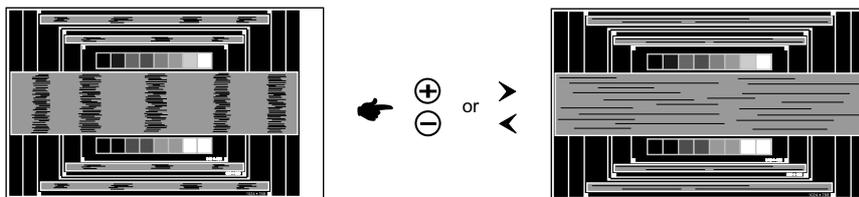
■ When the left side of the picture frame moves apart from the left edge of the display area during the Clock adjustment, adjust steps 1) and 2).

■ Another way to make the Clock adjustment is to correct the vertical wavy lines in the zebra pattern.

■ The picture may flicker during the Clock, H-Position and V-Position adjustment.

■ In case the picture frame is bigger or smaller than the data display area after the Clock adjustment, repeat steps from ③.

⑦ **Adjust the Phase to correct horizontal wavy noise, flicker or blur in the zebra pattern.**
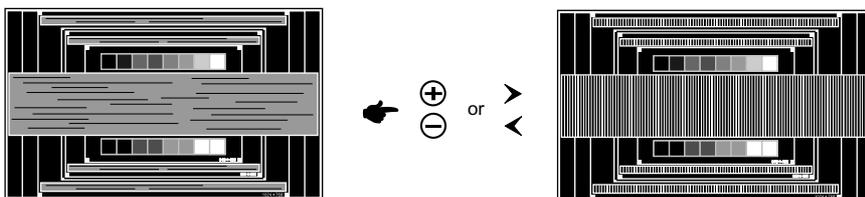
■ In case the strong flicker or blurs remain on a part of the screen, repeat steps ⑥ and ⑦ because the Clock may not be adjusted correctly. If the flicker or blurs still remain, set the refresh rate of computer to low (60Hz) and repeat steps from ③ again.

■ Adjust the H-Position after the Phase adjustment if the horizontal position moves during the adjustment.

⑧ **Adjust the Brightness and Color Temp. to get the desired picture after you complete the Clock and Phase adjustments. Put back your favorite wallpaper.**

POWER MANAGEMENT FEATURE

The power management feature of this product complies with every power saving requirement of ENERGY STAR® and VESA DPMS. When activated, it automatically reduces unnecessary power consumption of the monitor when your computer is not in use.
To use the feature, the monitor needs to be connected to a VESA DPMS compliant computer. There is a power management step the monitor takes as described below. The power management function, including any timer settings is configured by the operating system. Check your operating system manual for information on how this can be configured.

■ Power Management Mode
When the H-sync signal / V-sync signal / H and V sync signals from the computer are off, the monitor enters into Power Management Mode which reduces the power consumption to less than 5W. The screen becomes dark, and the power indicator turns to orange. From Power Management Mode, the image reappears in several seconds when either the keyboard or the mouse are touched again.
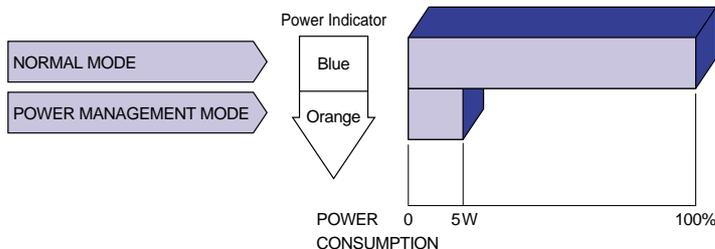
■ Even when using the power management mode, the monitor consumes electricity. Turn off the Power Switch whenever the monitor is not in use, during the night and weekends, to avoid unnecessary power consumption.

■ It is possible that the video signal from the computer may be on while the H or V sync signal is missing. In this instance, the POWER MANAGEMENT feature may not work properly.

TROUBLE SHOOTING

If the monitor fails to operate correctly, please follow the steps below for a possible solution.

1. Perform the adjustments described in OPERATING THE MONITOR, depending on the problem you have. If the monitor does not get a picture, skip to 2.

2. Consult the following items if you cannot find an appropriate adjustment item in OPERATING THE MONITOR or if the problem persists.

3. If you are experiencing a problem which is not described below or you cannot correct the problem, discontinue using the monitor and contact your dealer or iiyama service center for further assistance.

Problem	Check
① The picture does not appear.	
(Power indicator does not light up.)	☐ The Power Cable is firmly seated in the socket. ☐ The Power Switch is turned ON. ☐ The AC socket is live. Please check with another piece of equipment.
(Power indicator is blue.)	☐ If the blank screen saver is in active mode, touch the keyboard or the mouse. ☐ Increase the Contrast and/or Brightness. ☐ The computer is ON. ☐ The Signal Cable is properly connected. ☐ The signal timing of the computer is within the specification of the monitor.
(Power indicator is orange.)	☐ If the monitor is in power management mode, touch the keyboard or the mouse. ☐ If the input video signal selection is different, switch the Signal Select. ☐ The computer is ON. ☐ The Signal Cable is properly connected. ☐ The signal timing of the computer is within the specification of the monitor.
② The screen is not synchronized.	☐ The Signal Cable is properly connected. ☐ The signal timing of the computer is within the specification of the monitor. ☐ The video output level of the computer is within the specification of the monitor.
③ The screen position is not in the center.	☐ The signal timing of the computer is within the specification of the monitor.
④ The screen is too bright or too dark.	☐ The video output level of the computer is within the specification of the monitor.
⑤ The screen is shaking.	☐ The power voltage is within the specification of the monitor. ☐ The signal timing of the computer is within the specification of the monitor.
⑥ Remote Control does not work.	☐ Replace with new batteries. ☐ The battery terminals match the "+" and "–" indications in the battery compartment. ☐ The Remote Sensor is bathed in an intense light such as a fluorescent light. ☐ There is an obstacle between the Remote Control and the Remote Sensor.

APPENDIX A

| LCD Panel	Driving system	a-Si TFT Active Matrix
	Size	Diagonal: 102cm / 40"
	Pixel pitch	0.681mm H × 0.681mm V
	Brightness	450cd/m² (Typical)
	Contrast ratio	600 : 1 (Typical)
	Viewable angle	Right / Left / Up / Down: 85 degrees each
	Response time	23ms (Black, white, black)
Display Colors		16,777,216 maximum
Sync Frequency		Horizontal: 31.47-60.24kHz, Vertical: 56-75Hz
Dot Clock		102.98MHz maximum
Maximum Resolution		1280 × 768
Input Connector		D-SUB mini 15pin (ANALOG) DVI-D 24pin (DIGITAL)
Control Input Connector		RS-232C
Plug & Play		VESA DDC2B™
Input Sync Signal		Separate sync: TTL, Positive or Negative Composite sync: TTL, Positive or Negative Sync on green: 0.3Vp-p, Negative
Input Video Signal		Analog: 0.7Vp-p (Standard), 75Ω, Positive Digital: DVI (Digital Visual Interface standard Rev.1.0) compliance
Maximum Screen Size		871.7mm W × 523.0mm H / 34.3" W × 20.6" H
Power Source		100-230VAC, 50/60Hz 2.3-1.0A
Power Consumption		230W , Power management mode: 5W maximum
Dimensions / Net Weight		947 × 617 × 300mm / 37.3 × 24.3 × 11.8" (W×H×D) 37kg / 81.6lbs (With Stand)
Environmental Considerations		Operative temperature: 0 to 40°C / 32 to 104°F Storage temperature: -20 to 60°C / -4 to 140°F Humidity (-20 to under 30°C / -4 to under 86°F) : 20 to 85% (No condensation) Humidity (30 to under 40°C / 86 to under 104°F) : 20 to 60% (No condensation) Humidity (40 to under 50°C / 104 to under 122°F) : 20 to 50% (No condensation) Humidity (50 to 60°C / 122 to 140°F) :20 to 30% (No condensation)
Approvals		CE, FCC-B, UL / C-UL, VCCI-B

DIMENSIONS
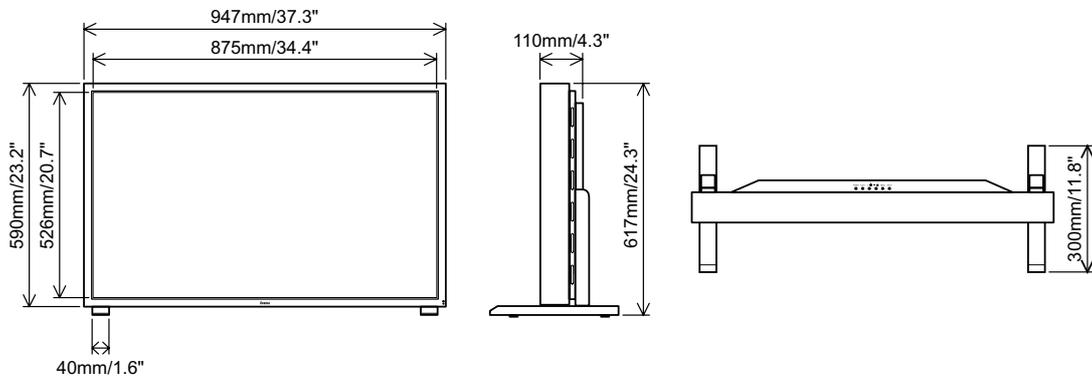
COMPLIANT TIMING

Video Mode		Horizontal Frequency	Vertical Frequency	Dot Clock	
VESA	VGA 640 × 480	31.469kHz	59.940Hz	25.175MHz	
		37.861kHz	72.809Hz	31.500MHz	
		37.500kHz	75.000Hz	31.500MHz	
	SVGA 800 × 600	37.879kHz	60.317Hz	40.000MHz	
		48.077kHz	72.188Hz	50.000MHz	
		46.875kHz	75.000Hz	49.500MHz	
	XGA 1024 × 768	48.363kHz	60.004Hz	65.000MHz	
		56.476kHz	70.069Hz	75.000MHz	
		60.023kHz	75.029Hz	78.750MHz	
	WXGA 1280 × 768	44.409kHz	56.000Hz	73.895MHz	
		47.701kHz	60.000Hz	80.136MHz	
		60.150kHz	75.000Hz	102.977MHz	
VGA TEXT	720 × 400	31.469kHz	70.087Hz	28.322MHz	*
Macintosh	640 × 480	35.000kHz	66.667Hz	30.240MHz	*
	832 × 624	49.725kHz	74.500Hz	57.283MHz	*
	1024 × 768	60.150kHz	74.720Hz	80.000MHz	*

NOTE * DVI input is not compliant.

CONNECTOR PIN ASSIGNMENT

■ D-SUB mini 15pin Connector
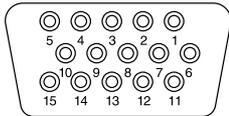
D-SUB

Pin	Input Signal	Pin	Input Signal
1	Red video	9	5V in
2	Green video	10	Ground
3	Blue video	11	Ground
4		12	Data line (SDA)*
5		13	H-Sync
6	Red video ground	14	V-Sync
7	Green video ground	15	Clock line (SCL)*
8	Blue video ground		* Compliant to VESA DDC.

■ DVI-D 24pin Connector

DVI-D

Pin	Input Signal	Pin	Input Signal
1	T.M.D.S Data 2–	13	
2	T.M.D.S Data 2+	14	+5V Power
3	T.M.D.S Data 2 Ground	15	Ground
4		16	Hot Plug Detect
5		17	T.M.D.S Data 0–
6	Clock line (SCL) *	18	T.M.D.S Data 0+
7	Data line (SDA) *	19	T.M.D.S Data 0 Ground
8	Analog V-Sync	20	
9	T.M.D.S Data 1–	21	
10	T.M.D.S Data 1+	22	T.M.D.S Clock Ground
11	T.M.D.S Data 1 Ground	23	T.M.D.S Clock +
12		24	T.M.D.S Clock –

* Compliant to VESA DDC.

■ RS-232C (D-SUB 9pin) Connector
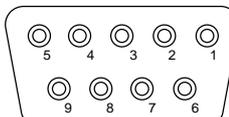
D-SUB

Pin	Input Signal	Pin	Input Signal
1	NC	6	NC
2	TxD (Transmit Data)	7	NC
3	RxD (Receive Data)	8	RTS (Request To Sent)
4	NC	9	NC
5	Ground		

RS-232C INTERFACE

■ Baud Rate   9600bps

■ Data Format   Start: 1-bit
                     Data: 8-bit
                     Parity: 0 (no Parity)
                     Stop: 1-bit

■ Command

Command Name	Function
POF	Turn off power
PON	Turn on power

NOTE Transmit POF and PON commands one by one. Allow an interval of 20 or more seconds between commands.

■ Protocol

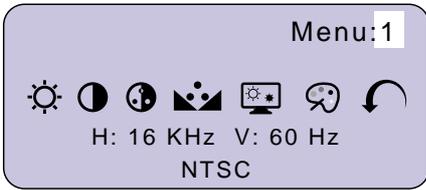| STX(02hex)	ID(2Byte)	COMMAND(3Byte)	ETX(03hex)

COMMAND 3Byte(ASCII)

APPENDIX B

Optional Video Input

This OSD Menu is available only when the optional video adapter is installed in the monitor.
Video input is not selected automatically from Analog or Digital input. Switch to video input by "Signal Select" on OSD Menu or the Input Button.
Under the power management mode, "Signal Select" page is displayed directly by pressing the Menu Button when the Menu is not displayed.

Menu : 1
(Video)

Menu:1

☼ ◑ ◒ ⩗ ▣ ◉ ↻

H: 16 KHz V: 60 Hz

NTSC

Adjustment Item		Problem / Option		Button to Press
☼ Brightness *1	**Direct**	Too dark	⬅ ⊕	or ❯
		Too bright	⬅ ⊖	or ❮
◑ Contrast *1	**Direct**	Too dull	⬅ ⊕	or ❯
		Too intense	⬅ ⊖	or ❮
◒ Color		Too weak	⬅ ⊕	or ❯
		Too strong	⬅ ⊖	or ❮
⩗ Hue		Purplish	⬅ ⊕	or ❯
		Greenish	⬅ ⊖	or ❮
▣ Sharpness		Too soft	⬅ ⊕	or ❯
		Too sharp	⬅ ⊖	or ❮
◉ Color Temp.	Color1	Approx. 9300K		
	Color2	Approx. 7500K		
	User	Red / Green / Blue Too dull	⬅ ⊕	or ❯
		Too intense	⬅ ⊖	or ❮
↻ Return to Menu		Highlight "Menu : 1" again.		

*1 Adjust the Brightness and Contrast so that the picture is displayed naturally in Video Input mode.

Direct

You can skip the Menu pages and display an adjustment scale directly by using the following button operations.

● Brightness
Press the Brightness Button on the monitor or the Remote Control when the Menu is not displayed.
● Contrast
Press the Contrast Button on the monitor or the Remote Control when the Menu is not displayed.

NOTE

SWITCHING BRIGHTNESS / CONTRAST ADJUSTMENT
To switch between Brightness and Contrast adjustments, press the Menu Button within 10 seconds after pressing the Brightness Button or the Contrast Button during the direct adjustments above.
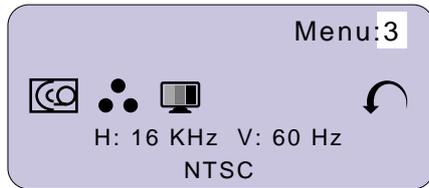
Menu : 2 (Video)	Menu:2 H: 16 KHz V: 60 Hz NTSC

Adjustment Item	Problem / Option	Button to Press
Signal Select **Direct**	Input 1 — Select the INPUT 1. Input 2 — Select the INPUT 2. Video 1 — Select the VIDEO input. Video 2 — Select the S VIDEO input.	
OSD Position	1 2 3 4 5 You can move the OSD display area to any one of the following 5 positions within the overall display: Press the + Button on the monitor or the ❯ Button on the Remote Control to move the OSD in numerical order. Press the – Button on the monitor or the ❮ Button on the Remote Control to move the OSD in reverse numerical order.	☞ ⊕ or ❯ ☞ ⊖ ❮
Full Screen	Mode1 — Displays the picture (ratio 4:3) Mode2 — Displays stretched picture (ratio 16:9) Mode3 — Displays stretched picture **NOTE** The picture is stretched vertically when selecting "Mode3".	
Language	English — English Deutsch — German Français — French Nederlands — Dutch Svenska — Swedish Italiano — Italian Español — Spanish Русский — Russian 日本語 — Japanese	
Zoom **Direct** Only the Remote Control has direct adjustment.	Zoom in Zoom out To move the zoom point to the right. To move the zoom point to the left. To move the zoom point upward. To move the zoom point downward.	☞ ⊕ or ∧ ☞ ⊖ ∨ MENU ☞ ◯ ☞ ⊕ or ❯ ☞ ⊖ ❮ MENU ☞ ◯ ☞ ⊕ or ∧ ☞ ⊖ ∨
Reset	NO — Return to Menu. YES — Factory-preset data is restored.	
Return To Menu	Highlight "Menu : 2" again.	

Direct

You can skip the Menu pages and display an adjustment scale directly by using the following button operations.

● Signal Select
Press the Input Button on the monitor or the Remote Control when the menu is not displayed.

● Zoom
Press the Zoom Button on the Remote Control when the menu is not displayed.

Menu : 3 (Video)	Menu:3 H: 16 KHz V: 60 Hz NTSC

Adjustment Item		Problem / Option
Input Source	DVD	Select this in normal use.
	VCR	Correct the picture distortion and shaking.
NOTE The picture may be shaking or distorted because of the type of video equipment. In this case, select VTR. The picture may not display normally when inputting the signal of television or damaged videotape.		
Color System	Auto	Switch the broadcast system automatically. Select this in normal use.
	NTSC	Switch the broadcast system to NTSC by force.
	PAL	Switch the broadcast system to PAL by force.
	SECAM	Switch the broadcast system to SECAM by force.
Gamma	Mode1	Normal
	Mode2	High contrast
	Mode3	Dark
Return to Menu		Highlight "Menu : 3" again.

Specifications for Optional Video Input

Input Connector	RCA pin jack S-Video terminal
Input Video Signal	Video*: NTSC, PAL, SECAM

NOTE * Not all broadcast systems are supported.

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